

Activity Description	Commitment Number	Workplan Commitments	Contact Person	Funding Source	Funding Source 2	Related ACS Measures	Time Frame/ Completion Date	Where Progress or Completion is Documented
Goal 2: Protecting America's Waters								
Objective 2.1: Protect Human Health								
2.1.1: Water Safe to Drink								
PWSS Program	DWC	26	Maintain primacy and fully implement PWSS Program regulations (including primacy reporting requirements). Continue to implement RTCR while State rules are developed in accordance with the Primacy Extension agreement. Promulgate amendments to the NJ Safe Drinking Water Act to incorporate and implement certain discretionary elements of RTCR. Implement the Lead and Copper Rule (LCR) consistent with Optimal Corrosion Control Treatment Evaluation Technical Recommendations for Primacy Agencies and Public Water Systems issued by USEPA March 2016. DEP expects to begin implementation of Water Quality Parameter monitoring as outlined in NJDEP-DWSG Lead and Copper Rule Implementation Strategy by December 2016.	Angarone K.	Federal – PPG			BSDW and BWSE Monthly Reports
Drinking water violation reporting	DWC	61	By July 1, submit an annual report to Region 2 as per Section 1414(d)(3)(A) on drinking water violations.	Angarone K.	Federal – PPG			DEP Annual Report
UCMR	DWC	72	Implement the Unregulated Monitoring Rule (UCMR4) according to the New Jersey - EPA Region 2 Partnership Agreement.	Angarone K.	Federal – PPG			DEP Annual Report
Lead ban provisions	DWC	85	Demonstrate annually that DEP is effectively implementing and enforcing the lead ban provisions (Sec. 1417 (a)(1)).	Angarone K.	Federal – PPG			NJAC 5:23-3.15(a)1, and the National Plumbing Subcode/2000, 4.2.4
	GWC	1	Continue operation, by maintaining all network wells in 150 well Ambient Ground Water Quality Monitoring Network, preparing 50 wells per year for sampling, sample -50 wells per year.	Bousenberry, R. (NJGS) & McGeorge, L. (WM&S)	Federal and State			Integrated Water Quality Monitoring & Assessment Report
Underground Injection Control	GWC	23	Conduct UIC permitting activities in accordance with N.J.A.C. 7:14A.	Murphy, J.	State – General Fund			NJPDES Permit Issuance
Underground Injection Control	GWC	24	NJDEP will submit a UIC report annually to EPA on or about October 30 of each year. This report will include all mandatory EPA reporting measures as agreed upon by EPA and NJDEP.	Murphy, J.	State – PPG Match			Documentation sent to EPA.
2.1.2: Fish and Shellfish Safe to Eat								
	SWC	23	Continue monitoring for the National Shellfish Sanitation Program, including microbial, phytoplankton and sanitary surveys and open/close areas to shellfish harvesting. Information from these analyses will contribute to NJ's classification of its coastal waters for shellfish harvesting.	Schuster, B.	Federal – PPG			Annual Shellfish Classification Charts, Growing Area Reports, BMWM Website (http://www.nj.gov/dep/bmw/index.html), STORET/WQX.
Enhancement of Advanced Microbiological Techniques for Source Tracking and Vibrio Management Using Quantitative Polymerase Chain Reaction (qPCR) and Pulsed-field Gel Electrophoresis (PFGE)	SWC	114	BMWM will purchase primers, probes and serotyping kits to continue work in the areas of advanced microbiological techniques for source tracking and vibrio management in New Jersey. BMWM will become certified in PFGE through PulseNet a national network of public health and food regulatory agency laboratories.	Schuster, B.	Federal - Supplemental 106 (FFY14, FFY15)			Long Term Strategy Annual Progress Report and Annual Vibrio Management Plan.
	SWC	214	Effective harmful algal bloom monitoring. Monitor for harmful algal blooms in NJ's coastal and estuarine water to protect public health from direct recreational contact and shellfish consumption. Flow cam microscope will enhance the ability to identify and enumerate algal species in both fresh and marine waters with more frequency of sampling.	Schuster, B.	Federal - PPG			Storet, Biotoxin Contingency Plan, and monthly Phytoplankton Reports (June through October)
2.1.3: Water Safe for Swimming								
	SWC	185	Through the Clean Shores Program, continue to use state prison labor to remove debris from ocean and estuary shorelines to reduce floatable debris incidents at ocean recreational areas.	Schuster, B.	Coastal Protection Trust Fund			Periodic summary reports; indicator. Data management - PC database.
Beach Monitoring	SWC	186	Through the Cooperative Coastal Monitoring Program, continue to coordinate the routine monitoring of coastal recreational waters-performed by the State and local health agencies. All activities are dependent on continued funding from EPA's Beach Grant. Effective communication to the public is done through an interactive web page.	Schuster, B.	EPA Beach Grant			Annual summary reports; indicator. Data management - STORET data warehouse.
Objective: 2.2: Protect and Restore Watersheds and Aquatic Ecosystems								
2.2.1: Improve Water Quality on a Watershed Basis								
Rivers and Streams Monitoring Networks	SWC	1	Continue to monitor and evaluate fixed chemical/physical and microbiological quality of freshwater streams and sediments, including the use of the redesigned Cooperative Ambient Surface Water Quality Monitoring Network and Regional Targeted Water Quality Networks; continue benthic Ambient Macroinvertebrate Network (AMNET) at rotating fixed stations; continue implementation of Northern and Southern Fish and Headwater Index of Biotic Integrity, Summer Bacti, at rotating fixed stations, statewide probabilistic and sentinel sites; continue monitoring for purposes of listing/delisting under CWA section 303(d). Continue a probabilistic network of 50 NJ stream sites which, to extent possible, will integrate physical/ chemical, biological, and habitat assessments. Results from this network will be used to provide statistically sound statewide estimates of water quality. Continue to enhance and/ or develop new biological indices as needed. Continue to enhance and/ or develop monitoring to address gaps.	McGeorge, L.	Federal - PPG, Supplemental 106 FY16, and State CBT			Integrated Water Quality Monitoring and Assessment Report, WM&S Webpage, STORET/WQX
TMDL Effectiveness Monitoring	SWC	7	TMDL Effectiveness Monitoring: Collect ambient synoptic monitoring data necessary to establish TMDLs in selected waters in accordance with the MOA TMDL Schedule.	McGeorge, L., Schuster, B.	Federal - PPG			NJ Register, Integrated Water Quality Monitoring and Assessment Report , STORET/WQX, DEP Website

Source Trackdown	SWC	10	Conduct investigations at impaired/impacted monitoring sites to ascertain the probable sources and causes of the impaired condition. Collaborate with other water programs of the Department, and external partners utilizing a team approach to determine potential stressors.-	McGeorge, L.	Federal - PPG and State CBT				Individual project report, STORET/WQX
NARS & EPA regional network	SWC	12	Participate in EPA National Aquatic Resource Surveys as resources allow. Wetlands NWCA CY 2016; NLA CY 2017 and EPA Regional Monitoring Network (RMN) - ongoing NRSA CY 2018-2019.	McGeorge, L., Friedman, B., Walz, K.	Federal - Supplemental 106 Funding and CBT State				EPA Reports
NWQI	SWC	13	Monitoring for National Water Quality Initiative (NWQI), EPA - Salem watershed Water quality and biological data obtained will be used by NJDEP to assess whether water quality and/or biological condition related to nutrients, sediment, or pathogens has changed in the watershed, and if the change can be associated with implemented agricultural conservation practices (Best Management Practices, BMPs).	McGeorge, L.	Federal - PPG and State CBT				STORET/WQX
LAKES	SWC	14	Continue NJDEP Ambient Lakes Monitoring Network, re-designed to include probabilistic, reference, and targeted lakes. As part of network, conduct monitoring of cyanotoxins, with analysis performed in BFBM laboratory. Implement diatom index analysis. Evaluate use of biological monitoring and assessment in lakes. Evaluate newly developed diatom nutrient inference models for routine use (with DSREH) Evaluate the need to develop diatom impairment indices (with DSREH)	McGeorge, L. and Buchanan, G. (DSREH-diatom commitments)	Federal – PPG State CBT				Individual Project Reports STORET/WQX, WM&S Website
HAB Response Strategy	SWC	15	Develop Statewide HAB Response Strategy in coordination with DSREH and other state agencies. Strategy to include response plan, advisories, establishment of threshold values, and research.	McGeorge, L. and Buchanan, G. (DSREH)	State CBT, Federal - PPG				Division webpage (www.state.nj.us/dep/wms)
	SWC	26	NJDEP will assist EPA in reporting NJ's accomplishments in meeting waterbody and watershed restoration goals, including SP-10 and SP-11. NJDEP will also assist EPA in setting targets for 2016. NJDEP will provide EPA with a "crosswalk" of the listings/geographic areas in 2002 which comprise each delisted waterbody/pollutant combination in 2014. NJDEP has targeted September 1, 2016 for sharing this crosswalk.	Cenno, K.					A separate report for the "crosswalk."
	SWC	36	Coordinate water monitoring and assessment activities to support departmental clean water objectives and water programs. Includes revision and implementation of Long-Term Monitoring Program Strategy (and associated water indicators) in accordance with EPA Guidance "Elements of a State Water Monitoring and Assessment Program". As part of this process, identify the primary data and assessment gaps for subwatersheds listed as "unassessed" on the Integrated List. Report the gaps_and progress made in filling them as part of the Long Term Monitoring and Assessment Strategy Annual Progress report.	Friedman, B.	Federal – PPG				Long Term Strategy Annual Progress Report.
	SWC	37	Coordinate NJ–Water Monitoring Council with USGS, EPA and other NJ monitoring organizations. Includes 40 members from 19 monitoring organizations. Council holds 3 meetings/year and periodic statewide water monitoring summits.	McGeorge, L.	Federal - PPG and State CBT				NEPPS Annual Performance Report and NJWMC Webpage
Database Maintenance: NJEMS/ PCS	SWC	43	NJDEP will implement a NJDEP/EPA agreed upon action plan for the NPDES data entry/flow into ICIS-NPDES. In the interim, NJDEP will provide 100% Wende DMR data elements for major facilities via reports available on the NJ Data Miner website.	Beym, T.	State – PPG Match				ICIS and NJDEP Data Miner website
Database Maintenance: NJEMS/ PCS	SWC	44	NJDEP will implement a NJDEP/EPA agreed upon action plan for the NPDES data entry/flow into ICIS-NPDES. In the interim, NJDEP will provide DSW permit information via reports available on the NJ Data Miner website and, for pretreatment, will email information to EPA as agreed. Once NPDES data is flowing into ICIS, NJDEP will also input pretreatment audit information (including but not limited to audit dates, number of SIUs in significant non-compliance, number of SIUs without permits, etc...).	Beym, T.	State – PPG Match				ICIS and NJDEP Data Miner website
Data Management	SWC	47	Enter DEP-generated ambient water quality data that has been QA'd and not entered into USGS' NWIS database into STORET/WQX data warehouse. NJDEP has targeted to have this data entered by June of the following year. Enter DEP-generated short-term continuous data from deployments of various data sondes and loggers in freshwaters of the State into the NJDEP's DWM&S Continuous Data Monitoring Program .	McGeorge, L., Schuster, B.	Federal – PPG				STORET/WQX data warehouse and DWM&S' Continuous Data Website
	SWC	66	Establish TMDLs, watershed restoration plans and/ or take other appropriate actions to address all listed waterbody/ pollutant combinations with a goal of addressing each combination within 13 years of its original listing date. The two year schedule for addressing impairments, including TMDL development is posted for public comment along with the biennial "Integrated Water Quality Assessment Report". NJDEP has posted the list of high priority waters in the July 2014 NJ Register and it consists of 56pollutant-waterbody combinations, all in the Raritan, Salem and Saddle River watersheds. EPA and NJDEP agree that mechanisms other than TMDLs may be used to address pollutants for some waterbodies. Criteria for choosing additional waterbodies for action include alignment with the State Strategic Plan. In 2017, NJDEP will propose TMDLs for the Salem and Saddle Rivers, with finalization in-2018. NJDEP will also identify the number of segments and pollutants associated with the Hammonton River TMDLs. In 2018, NJDEP will develop a TMDL model for the Hammonton River For priority waters identified under EPA's 303(d) program measure (WQ-27), NJDEP will provide annual commitments for TMDLs, alternative restoration approaches, or protection plans for each federal fiscal year.	Cenno, K.	State- CBT				Individual Project Reports
	SWC	80	NJDEP will propose changes to SWQS and submit adopted amendments to EPA in 2017. Anticipated areas of change include recreational criteria consistent with the BEACH Act in all primary contact recreation waters, freshwater ammonia and nutrient criteria and/or policies.	Cenno, K.	State - General Fund				New Jersey Register

	SWC	81	Continue to implement the projects identified in the 2013 Nutrient Criteria Enhancement Plan (NCEP) and provide annual progress reports. Evaluate progress under the 2013 plan and revise the NCEP in 2017 including task completion updates and new tasks. The revised NCEP should include a brief description of tasks already completed/still ongoing and provide the description of how NJDEP plans to use this information in the process of numeric criteria derivation for states estuaries. Specific information about the status of numeric nutrient criteria derivation should be included along with the expected schedule for their adoption and submission to EPA for approval.	Cenno, K.	State - General Fund				Nutrient Criteria Enhancement Plan annual progress reports and Long Term Strategy Annual Progress Report
Planning – 303(d) List	SWC	89	Submit to EPA the required elements under Sections 303(d) and 305(b) of the CWA by April 1st of even-numbered years. Assess water quality using all existing, and readily available data and information, and provide NJ's assessment results to EPA in a format compatible with the ATTAINS national data base. NJDEP shall keep EPA apprised of progress regarding the draft 2014 Section 303(d) and 305(b) required elements and expects to public notice them in the NJ Register on or about February 1, 2016. NJDEP will provide the region with electronic ADB compatible spreadsheet. NJDEP will assist with validation of assessment information as necessary.	Cenno, K.	State – General Fund				2012 Integrated Water Quality Monitoring and Assessment Report.
NJPDES DSW Permitting	SWC	107	Number and percent of facilities covered by DSW permits that are considered current. Goal for major DSW permit is no greater than 25% backlogged during the time NJDEP is preparing for NJPDES data entry/flow into ICIS-NPDES. After NJPDES data is flowing into ICIS-NPDES, the goal for major DSW permits will be no greater than 15% backlogged, unless otherwise negotiated.	Rosenwinkel, S., Carasia Auriti, M.	State – PPG Match				NJPDES Permit Issuance
Industrial Pretreatment	SWC	121	Continue approval, modification and oversight of delegated pretreatment programs in accordance with N.J.A.C. 7:14A; continue to conduct audits in accordance with the agreed upon protocol; continue issuance of SIU permits in non-delegated areas; and provide data in accordance with SWC 44.	Kempel, N.	State - PPG Match				Other
NJPDES Permitting	SWC	123	Number and percent of priority NJPDES permits that are issued during the federal fiscal year. Number of priority permits to be issued shall be determined as the 80% of the 20% of the candidate list. Target number for each State fiscal year to be determined by September 30th of that fiscal year.	Rosenwinkel, S., Carasia Auriti, M.	State - PPG Match				
CSOs	SWC	123.4	NJDEP will monitor CSO permittees progress toward meeting LTCP compliance due dates.	Rosenwinkel, S., Carasia Auriti, M.					
NJPDES Permitting	SWC	220	NJDEP will update EPA on the status of expired/current NJPDES dischargers including the number of entities covered by general permits for construction sites, industrial facilities, MS4s, and CAFOs.	Beym, T.	State - PPG Match				Email Communications
	SWC	115	Determine the Natural Variability of Phosphorus Concentrations at Selected Diatom Sites: The primary objective of this project is to develop data to determine the natural variability of phosphorus and nutrients in relation to the variability in diatom communities. Data will be used, in conjunction with other available physical/ chemical and biological data to make informed decisions regarding the development of appropriate Surface Water Quality Standards for Total Phosphorus in NJ streams	Cenno, K., McGeorge, L., Schuster, B.	Federal - Supplemental 106 Funding (FFY14)				STORET/WQX data warehouse, Long Term Monitoring Strategy Progress Reports, SWQS
Statewide NPS Program	SWC	138	NJDEP will report into the Grants Reporting and Tracking System (GRTS) all projects selected for Section 319 grant funds (federal and state match). GRTS data entry will include, as applicable and appropriate, load reduction data for N, P and sediments. As required by Section 319, NJDEP will submit to EPA a statewide annual NPS report. Using a Watershed based approach, NJDEP will develop WQ-10 success stories for water bodies that were primarily non point source impaired and have been partially or fully restored. entry on or about 2/15/17, 2/15/18, 2/15/19 (for load reductions). *Submit annual NPS report on or about 11/1/17, 11/1/18, 11/1/19. *Complete 1 WQ-10 success story per year on or about 7/30	Cenno, K./Somboonlakana, D.	Federal PPG, 319 State-General Fund				GRTS entries made directly to GRTS. Success stories are individual reports.
Fish IBI Development	SWC	188	Continue collection of fish community data necessary for statistical analysis and validation of Southern Fish IBI in the outer coastal plain.	McGeorge, L.	Federal PPG, State CBT				Individual project reports and/or WM&S webpage
NJPDES Permitting	SWC	189	NJDEP will work to eliminate the backlog of permits expired greater than 10 years.	Rosenwinkel, S., Carasia Auriti, M.	State - PPG Match				NJPDES Permit Issuance
NJPDES Permitting	SWC	190	NJDEP will continue to work with EPA to address mutually-agreed upon permit-related action items that have been identified by EPA or NJDEP. EPA and NDEP will meet in person or have a conference call quarterly if needed, but at a minimum of annually to discuss permitting issues. EPA and NJDEP shall meet no later than the end of the first quarter of the State fiscal year for which discussions are appropriate.	Rosenwinkel, S., Carasia Auriti, M. and Murphy, J.					
NJPDES Permitting	SWC	191	NJDEP will establish e.coli limitations for newly issued permits, as appropriate for discharges to Freshwater and Enterococci for SE1 and SC waters, and SE2 and SE3 get Fecal limits.	Rosenwinkel, S., Carasia Auriti, M.					
NPS Pollution Control Projects in Estuarine Environments	SWC	193	\$371,482 of discretionary 319(h) funds implementing three major nonpoint source pollution control stormwater basin retrofit projects to reduce nutrients, total suspended solids and pathogen loads to the upper portions of Barnegat Bay.	Cenno, K.	EPA FYY 2008 Discretionary Grant				Quarterly reports by grant recipient and deliverables.
NPS Green Infrastructure Techniques	SWC	195	These funds were originally allocated to support green infrastructure projects within the Rockaway River watershed at the Rockaway Mall (\$381,715). Unfortunately, due to organizational changes within the company that owns the Rockaway Mall, there remained little interest to continue moving forward with this project. The Department reprogrammed the remaining funds and applied them to the existing grant account for Green Infrastructure Implementation Projects for the City of Newark. This project builds upon this successful initiative with an expiration date of August 2016.	Cenno, K.	EPA FYY 2009 Discretionary Grant				Quarterly reports by grant recipient and project deliverables
Fish Tissue Monitoring	SWC	199	Continue the NJDEP fish tissue monitoring program. Freshwater sampling and analyses will be conducted on 10-20 targeted and probabilistic sites in public lakes over 10 acres, and/or large rivers. Implement estuarine and coastal waters fish tissue monitoring program.	McGeorge, L., (WM&S), Buchanan, G. (OS)	Federal - Supplemental 106 Funding				Raw data in to STORET/WQX data warehouse
Trends	SWC	204	Using a professional services contract, continue work with USGS to develop long-term (30 year), chemical/physical water quality plots and trends information for approximately 30 stations in NJ's cooperative ambient rivers and streams monitoring network. Trends focus is on Nutrients and Phosphorus.	McGeorge, L.	Federal - Supplemental 106 Funding (FFY11 and FFY12)				

Enhanced Technology	SWC	205	Develop capacity for use of advanced freshwater monitoring technology (meters) for efficient production and transfer of water quality data (e.g., pH and conductivity) from NJ's rivers, streams and lakes. Continued upgrade monitoring equipment which will result in standardization of analytical results and minimization of transcription errors when entering data into databases. Enhance capacity of meters for measuring flow. Develop capacity for in-field electronic documentation and data upload of observations and field measurements. Develop capacity for short term continuous freshwater and coastal monitoring stations with telemetry and real time data. Develop capacity to perform bathymetric surveys, lake residence time, submerged and surface vegetation surveys, and HAB bloom monitoring using unmanned aerial vehicle (UAV), depth finder, and GIS equipment.	McGeorge, L., Schuster, B.	Federal - Supplemental 106 Funding (FFY16)				
NPS Strategy	SWC	208	Implement New Jersey's Nonpoint source management program plan.	Cenno, K.	Federal PPG, 319 State-General Fund				Individual Report, Annual Statewide NPS Report
NPS Barnegat Bay Living Shoreline	SWC	210	<u>Barnegat Bay Living Shoreline</u> : NJDEP will assist in the recovery and future protection of water quality and natural resources in Barnegat Bay through the implementation of a high visibility living shoreline demonstration project in the Barnegat Bay watershed, in accordance with the April 22, 2013 EPA approved detailed workplan. NJDEP has targeted the following milestones for this project. Milestone 1: Completion of final design and permit application (target: December 2015). Milestone 2: Development of a public outreach plan (target: December 2016/4). Milestone 3: Implementation/construction of living shoreline (target: June 2017). Milestone 4: Public outreach plan implementation (target: June 2017).	Cenno, K.,	EPA FYY 2012 Discretionary Grant				Quarterly reports by grant recipient and deliverables
Living Shorelines to Restore Wetlands, Improve Water Quality and Engage Communities in Camden	SWC	211	NJDEP will use the CWA 319(h) Discretionary Funds to: a) Develop a living shoreline design for a specific location in Camden, New Jersey, where it is determined to have the greatest beneficial impacts on water quality, habitat quality, and coastal resiliency; b) build support for the implementation of climate resiliency techniques like living shorelines among community groups and local decision makers through project-related education/outreach; c) train and engage the local community in freshwater mussel monitoring and; d) quantify the contribution of endemic freshwater mussel populations in water quality improvements.	Cenno, K., (DEP), Purdy, I, Drake, K. (EPA)	EPA FYY 2013 Discretionary Grant				Quarterly reports by grant recipient and deliverables.
Nonpoint Source Management in the Barnegat Bay Watershed - Reducing Nutrient Pollution from Fertilizer and Reducing Watercraft Impacts	SWC	212	NJDEP will reduce nutrient pollution from fertilizer and reduce watercraft impacts: <i>Fertilizer Law Implementation and Outreach</i> : NJDEP will advance implementation of the NJ Fertilizer law by developing training materials to reach lawn care professionals who are required to be certified in order to apply fertilizer, in accordance with the March 2013 EPA approved workplan; <i>Reduce Watercraft Impacts to Ecologically Sensitive Areas</i> : NJDEP will incorporate the location information of the Ecologically Sensitive Areas on the NJ Division of Fish and Wildlife GPS Mobile App in such a way that the information will be easily accessible to boaters. NJDEP will further assess the Ecologically Sensitive Areas, including further verification of their locations and impacts of Hurricane Sandy, in accordance with the March 2013 EPA approved workplan. Remaining task: NJDEP expects to complete Final Project report in August 2016	Cenno, K.	EPA FYY 2012 Discretionary Grant				Quarterly reports by grant recipient and deliverables
Statewide NPS Program	SWC	213	NJDEP will assist EPA in reporting NJ's accomplishments in meeting waterbody and watershed restoration goals for SP-12. Complete 1 SP-12 success story per year expected or on about 6/30	Cenno, K.	Federal PPG, 319 State-General Fund				SP-12 success stories
	SWC	216	In accordance with the December 23, 2014 EPA approved detailed workplan, NJDEP will implement two citizen science projects in the Barnegat Bay Watershed: a) Adult Community Engagement in Holiday City, Toms River, NJ and; b) Citizen Monitoring of Water Quality at the Barnegat Bay Partnership Brown's Woods Preserve in Toms River, NJ.	Cenno, K.	Discretionary 106 funding				STORET/WQX data warehouse
	SWC	217	Using a professional services contract, expand upon current reference lake monitoring efforts to determine reference lake conditions throughout the state's ecoregions. The primary objective of this project is to collect data necessary to assess detailed growing season water quality conditions within New Jersey reference lakes. The data will be used to characterize reference lake conditions in the ecoregions of the state for enhancing the current lake nutrient criteria	Cenno, K..	106 Supplemental Funds (FFY15)				STORET/WQX data warehouse, Nutrient Criteria Enhancement Plan, Integrated Water Quality Monitoring & Assessment Report
2.2.2: Improve Coastal and Ocean Waters									
	SWC	25	Continue monitoring basic water chemistry in coastal and estuarine waters (nutrients, DO, salinity and chlorophyll) in bay and near-shore waters.	Schuster, B.	Federal -PPG, Supplemental 106 Funds (FFY15)				Integrated Water Quality Monitoring and Assessment Report, STORET/WQX
Ocean Dissolved Oxygen Monitoring	SWC	192	routine monitoring of dissolved oxygen, temperature and salinity in NJ's ocean waters through use of an automated underwater vehicle (glider) in cooperation with Rutgers University.	Schuster, B.	State Funds- CBT				Individual project reports and data entered STORET data warehouse.
Coastal Water Quality Data Management System	SWC	200	Maintain continuous monitoring website developed to handle both real-time and short term deployed continuous monitoring water quality equipment.	Schuster, B.	Federal - PPG				NJDEP/Rutgers Air Craft Remote Sensing web page has been developed. New web site for continuous data developed for public access completed. Completed 3 deployments in FY14, and 3 more are scheduled for FY15 using NJDEP funding.
Enhanced Remote Sensing of chlorophyll in NJ's coastal waters	SWC	201	Continue extension of time period for remote sensing flights, weekly, over NJ's coastal waters from March-May and Sept-Oct to expand surveillance for potential blooms	Schuster, B.	Federal - Supplemental 106 Funding (FFY09 and FFY10)				www.nj.gov/dep/bmw
Assess sediment toxicity-- Barnegat Bay pilot	SWC	203	Using a professional services contract, assess sediment toxicity as a possible cause for aquatic life impacts. Pilot in Barnegat Bay.	Cenno, K.	Federal - Supplemental 106 Funding (FFY11 and FFY12/13)				Project report upon completion
Reduce Marine Debris	SWC	207	Purchase and install 11 - 15 bottle refilling stations for coastal state parks and urban parks along the Camden waterfront. Project will address the problem of disposable plastic water bottles entering tidal waterways and reduce marine debris.	Schuster, B.	Federal - 319(h) and PWSS				Report to EPA

Status/ Progress
Rule proposed in NJR on March 20, 2017.
Report was sent on July 25, 2017
Ongoing
Ongoing
2016 monitoring completed as scheduled, 2017 sampling commenced as scheduled.
Ongoing.
To be completed in October.
2016 monitoring completed as scheduled, 2017 sampling commenced as scheduled. Data all sent to STORET/WQX
Annual plan completed for 2016 and 2017. 2018 plan in draft expected in Jan. 2018. Equipment purchased and in use, staff trained and PulseNet certified for PFGE.
Phytoplankton report complete for 2016. 2017 annual report will be completed in Jan. 2018. Biotoxin plan updated for 2017, draft is underway for 2018. FlowCam purchased and in use.
Ongoing
Reports completed for 2016, 2017 report will be out in spring 2018. CCMP moved to Directors Office.
2016 monitoring completed as scheduled, 2017 sampling commenced as scheduled. Samples for networks collected and analyzed as scheduled. Ambient Surface Water Quality - 310 samples Regional Targeted/ Probabilistic - 296 samples AMNET - 197 samples FIBI - 52 samples HIBI - 7 samples Bacti - 478 samples ----- Sampling completed for Lower Delaware Region. Data will be used to re-calibrate CPMI per 2016 Monitoring Initiative Fund Project "Recalibration of the Coastal Plain Macroinvertebrate Index (CPMI)" Water Quality Monitoring Gap and Enhancement Project established to address a number of chemical/physical monitoring gaps, such as identifying additional reference stations, additional monitoring done at sites suspected of having water quality issues, and follow-up monitoring at sites where spills occurred (West Portal Creek).
Barnegat Bay Long-Term Ambient Monitoring continued. Potential uses - TMDL for portions of the Bay and to assess long-term trends in relation to implementation of NJ fertilizer rule.

Monitoring stations incorporated into networks (Regional Targeted Water Quality Network and Water Quality Monitoring Gap and Enhancement Project) to collect additional samples at sites identified or suspected to be impaired (i.e. Cruser Brook impacted by gravel operation upstream, West Portal Creek impacted by detergent spill, Hudson Branch impacted by Superfund site).
NLA commenced in summer 2017. Attended steering committee meetings for NLA and NRSA. RMN monitoring at 3 sites in NJ ongoing, with 2017 being the fourth year.
Ongoing. Completed 2016 NWQI monitoring with 54 samples collected. Began 2017 sampling in August.
Ongoing. Completed 2016 lake sampling. 80 site visits. Commenced 2017 sampling in spring 2017. Network probabilistic sites were postponed until 2018 in order to complete NLA. Will evaluate feasibility of adapting NLA biological monitoring in NJ upon completion of 2017 NLA. Completed sampling and analysis for FFY 15 DWM&S Monitoring Initiative Project "Lake Diatom Assessment". Data currently being reviewed by DSREH.
Ongoing. Comprehensive NJ Recreational HAB Strategy was completed and implementation is ongoing by NJDEP, NJDOH, NJ Dept of Ag, and external partners, including local health departments. Strategy includes response plan, advisories, recreational threshold guidelines, research plan development, and suspected HAB reporting procedures. The Strategy is available at NJ's new cyanoHAB website http://www.state.nj.us/dep/wms/bfbm/CyanoHABHome.html
Draft Crosswalk submitted to EPA February 2016, final crosswalk in preparation.
Ongoing. Update to Long Term Strategy is currently undergoing DWM&S management review.
Ongoing. 3 meetings held - 9/21/16, 1/19/17 and 5/24/17. Agendas, minutes and presentations are available on the Council's website at: http://www.nj.gov/dep/wms/wmcchome.html
Implementation of the action plan is in progress. Phases I and IV are complete. Phase II is expected to be completed by the end of August 2017. The migration of NJDEPs production NPDES data to the EPA ICIS-NPDES test system is scheduled to occur in late September 2017 with the final load to ICIS production starting on November 6, 2017. At that point, NJDEP will continue to send updated NPDES information to the ICIS-NPDES system.
See respose 43 above.
Completed as committed
Raritan TMDL approved by EPA on May 9, 2016. 2014 303(d) List and 2 Year Schedule identifying Salem and Saddle Rivers for TMDL proposals approved by EPA on July 21, 2017. WQ 27 Commitments provided to EPA on July 1, 2015 identified the Raritan TMDL as 2016 commitment which was met and the Metedeconk Protection Plan as a 2017 commitment, the development of the later is ongoing.
Ongoing

Ongoing	
EPA approved 2014 303(d) List of Impaired Waters and accompanying 305(b) Report which constitutes the 2014 New Jersey Integrated Water Quality Assessment Report on July 21, 2017.	
Completed as backlog is below 15%.	
Ongoing.	
1 out of 3 priority permits are completed.	
ongoing	
Ongoing. Report is sent quarterly.	
Sampling completed	
On Schedule	
Analysis ongoing to develop new Southern IBI fish metrics to include both the Inner and Outer Coastal Plains. The metric development will utilize the same analysis procedures as the recently completed northern IBI and headwaters IBI metrics.	
Completed.	
Ongoing.	
Ongoing. As permits are renewed, new limits will be incorporated.	
Work Completed. Grant has expired. Awaiting Final Report.	
Work Completed. Final Report under review.	
All 2016 samples collected; 27 sites. sampling initiated.	2017
Analysis completed and report finalized.	

Meters purchased for non wadeable flow measurements (FFY 15 DWM&S Monitoring Initiative Project). Tablets on loan for NLA. Will assess use for routine field applications at completion of NLA. Appropriate tablets will be purchased per FFY 15 DWM&S Monitoring Initiative Project. Land Based YSI real-time water quality monitor purchased and implemented (BFBM/BMWM joint FFY 15 DWM&S Monitoring Initiative Project). Software and equipment for bathymetric surveys, lake residence time, submerged and surface vegetation surveys, and HAB bloom monitoring using unmanned aerial vehicle (UAV) in process for purchase (FFY16 Monitoring Initiative Project)
On Schedule
Grant ongoing. Project design completed and contractor selected.
Grant ongoing. Starting project design phase.
Work Completed. Environmentally Sensitive Area grant completed and closed out. Fertilizer Law grant completed, awaiting additional information from grantee to process Final Report and close out grant.
Ongoing
Ongoing
Ongoing - Initiated in 2016 expected completion in 2020.
Ongoing annual sampling and analysis
Added chlorophyll, continue 3 deployments each year.
Completed as committed for 2016, expanded network with 4 additional buoys and a continuous monitor deployed in Manasquan Reservoir working with BFBM.
Completed, flights now routinely start in April and continue into October/November.
Published by USGS in 2014 at https://pubs.usgs.gov/ds/0867/
Completed